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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER				
SHARMA, SUJATHA R				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/521,026

Applicant(s)

RYDGGREN, AKE

Examiner

SUJATHA SHARMA

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 January 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date 1/12/05
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Hitoshi [EP 608899].

Regarding claim 1, Hitoshi discloses a portable telephone (10 in Fig. 6-11) and additional device for the same (20,30 in Figs. 6-11). He further discloses a portable telephone comprising data processing means for controlling terminal functions (col. 6, line 1 – col. 7, line 2), and attaching means for releasable attachment of a housing to the terminal (col. 1, line 65 – col. 2, line 30; col. 4, lines 17-22, and a multipath connector connected to the data processing means (col. 4, lines 28-32, figs. 15a, 15b, 15c), wherein said the multipath connector includes a terminal system connector (55 in Fig. 15c), and a housing connector (51 and 53 in Figs. 15a,15b) configured to provide a communicative connection of an attached housing to the data processing means (col. 6, lines 11-37)

Regarding claim 2, Hitoshi discloses a portable telephone wherein the multipath connector is positioned such that the system connector is accessible from an outer portion of the terminal (see fig. 15c where the system connector is at the bottom and easily accessible from the outside of the terminal for connecting to external equipment such as a modem connection), and such that said the housing connector faces a front or rear side of the terminal (connector 31 in Figs. 6,7 and

connector 53 in Figs. 15a,15b where it is in the rear of the terminal for easy attachment of the additional device 30)

Regarding claim 3, Hitoshi discloses a portable telephone wherein the multipath connector is positioned such that the system connector is accessible from the outside outer portion of the terminal, and such that said the housing connector faces a different direction than the system connector. See figs 15a-15c, col. 6, lines 11-49

Regarding claim 4, Hitoshi discloses a portable telephone wherein the multipath connector is positioned at an end of the terminal, such that the system connector is accessible in a longitudinal direction of the terminal, and where said the housing connector faces a front or rear side of the terminal. See Fig. 14, Figs 15a-15c, col. 6, lines 11-49

Regarding claim 5, Hitoshi discloses a portable telephone wherein the multipath connector comprises two housing connectors, configured to provide a communicative connection of a front housing and a rear housing. See figs 15a – 15c where 51 connects to the front/main housing and 53 connects to the rear housing.

Regarding claim 6, Hitoshi discloses a portable telephone wherein the multipath connector comprises connector poles that are branched to said the system connector and the housing connector. See Figs. 15a-15c and col. 6, lines 1-49

3. Claims 7-10,14 are rejected under 35 U.S.C. 102(b) as being anticipated by John [WO 02 41607]

Regarding claims 7,14 John discloses disconnectable housing for a radio communication terminal having data processing means for controlling terminal functions, the housing comprising attaching means for releasable attachment of the housing to the terminal (see page 1, line 29- page 3, line 5) and a terminal connector (28 in Fig. 2) configured to provide bus connectivity with said the terminal upon attachment, and functional means connected to the terminal connector for affecting the function of the attached terminal (page 6, lines 8-11

Regarding claim 8, John discloses disconnectable housing wherein the functional means for affecting the function of an attached terminal comprises a micro controller. See page 6, lines 19-25 and page 7, lines 7-10

Regarding claim 9, John discloses disconnectable housing wherein the functional means for affecting the function of an attached terminal comprises a functional member configured to add a feature to the terminal when the housing is attached thereto. See page 2, lines 19-30

Regarding claim 10, John discloses disconnectable housing wherein the functional means for affecting the function of an attached terminal comprises a functional member, configured to modify a feature of the terminal when the housing is attached thereto. See page 2, lines 19-30

4. Claims 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by White[GB 2 339 342].

Regarding claim 16, White discloses a connector joining a battery and 2 PCBs in a mobile phone. White further discloses a multipath connector for a radio communication terminal, wherein the multipath connector has separate first and second connector interfaces comprising interconnected poles. See page 5, lines 10-22; page 7, lines 1-7 and Figs. 2-4,8

Regarding claim 17, White discloses a connector further comprising connection pads for connection to a terminal PCB. See page 5, lines 10-22; page 7, lines 1-7 and Figs. 2-4,8

Regarding claim 18, White discloses a connector wherein the connector is configured to be fixed to an end of a terminal PCB, such that one-the first connector interface faces outwardly in the longitudinal direction of said the PCB, and the second connector interface faces outwardly substantially perpendicular to the PCB. See page 5, lines 10-22; page 7, lines 1-7 and Figs. 2-4,8

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 11,13 are rejected under 35 U.S.C. 103(a) as being unpatentable over John [WO 02 41607] in view of Guy [WO 01 37229]

Regarding claim 11, John discloses all the limitations as claimed. However, he does not disclose a method wherein the functional member comprises a touch-sensitive display.

Guy, in the same field of endeavor, teaches a modular communication system wherein at least one module interfaces with the base unit and comprises a touch-sensitive display. See page 16, line 15 – page 17, line 8.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above functionality of touch-sensitive screen taught by Guy to John in order to enhance the functionality of the portable telephone.

Regarding claim 13, Guy further discloses a method wherein the functional member comprises a digital image recorder. See page 19, line 26 – page 20, line 17

7. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over John [WO 02 41607] in view of David [US 5,655,017]

Regarding claim 12, John as treated in claim 9 discloses a all the limitations a s claimed. However, he does not disclose a method wherein the functional member comprises a speaker for hands free operation.

David, in the same field of endeavor, teaches a method wherein the functional member comprises a speaker for hands free operation.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above functionality of having a speaker as taught by David to John in order to enhance the functionality of the portable telephone.

8. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over White[GB 2 339 342] in view of Noriyuki [EP 518 578]

Regarding claim 19, White as treated in claim 18 discloses all the limitations as claimed. However, he does not disclose a method further comprising a third connector interface facing outwardly substantially perpendicular to the PCB in the a direction that is opposite from said the second connector interface.

Noriyuki, in the same field of endeavor, teaches a method further comprising a third connector interface facing outwardly substantially perpendicular to the PCB in the a direction that is opposite from said the second connector interface. See col. 2, lines 1-13, col. 4, lines 3-16 and Figs. 1-3.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Noriyuki to White in order to provide proper contact from each electric contact to a terminal portion which is to be electrically conducted to a printed circuit board in order to cope effectively with high frequency signals.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Deeds [US 6,810,238]	Extension module for a portable device
Zurek [US 6,636,750]	Speakerphone accessory for a portable telephone
Curtis [US 2003/0194974]	Radiotelephone
Lindholm [US 7,092,519]	Communication terminal having exchangeable parts

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Gartrell [US 7,236,588] Interlocking cover for mobile terminals

Kim [US 7,197,345] Replaceable sliding cover unit for folder in folder-type portable
phone

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUJATHA SHARMA whose telephone number is (571)272-7886. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew D. Anderson can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. S./

Primary Examiner, Art Unit 2618
Sujatha Sharma
March 12, 2008

